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(21) International Application Number: PCT/US99/23579 (22) International Filing Date: 12 October 1999 (12.10.99) (30) Priority Data: 09/170,640 13 October 1998 (13.10.98) US (71) Applicant: MA BIOSERVICES, INC. (US/US); Life Sciences Center, 9900 Blackwell Road, Rockville, MD 20850-3349 (US). (72) Inventors: BIRD, Robert, Earl; 4620 Norbeck Road, Rockville, MD 20853 (US). GLEBOV, Oleg, K.; 12715 Sesame Seed Court, Germantown, MD 20874 (US). BORELLINI, Flavia; 940 Flying Fish Street, Foster City, CA 94404 (US). JACOBSON-KRAM, David; 5910 Chesterbrook Road, McLean, VA 22101 (US). OSTROVE, Jeffrey, M.; 1301 Tyrol Road, West Vancouver, British Columbia V7S 2L5 (CA). (74) Agents: MAYS, Thomas, D. et al.; Morrison & Foerster LLP, 2000 Pennsylvania Avenue, N.W., Washington, DC 20006-1888 (US).		(81) Designated States: AU, CA, JP, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: CARCINOGEN ASSAY (57) Abstract <p>The present invention is drawn to methods and assays for the early determination of whether a test agent is a carcinogen. These novel methods and assays are used to correlate the pattern of differential gene expression from mammalian cells treated with the test agent with reference patterns of differential gene expression of mammalian cells treated with known carcinogens. Further, the present invention is drawn to methods of use of DNA and RNA isolated from the treated mammalian cells as well as kits comprising same. The present invention also is drawn to methods of determining whether a test agent is a carcinogen by measuring protein synthesis or post-translational modifications from mammalian cells treated with the test agent compared with mammalian cells treated with a known carcinogen.</p>		